

THE CLAIMS

1. Screwdriver with a screw holder comprising

A) a shaft (2), which can be connected with driving means and has a longitudinal axis (3) and a front shaft segment (9), which can be introduced into recess of a screw head, suitable for a screwdriver, and

B) a spring element (6), which is disposed at the front segment (9) of the shaft and can be deformed elastically transversely to the longitudinal axis (3), a central axis (14), coaxially with the central axis (14) at least one firm segment (12), which can be connected with the shaft (2), and at least one elastic segment (13),

C) the end of shaft (2), at the front shaft segment (9), having an end face (18), which is perpendicular to the longitudinal axis (3) and

D) the firm segment (12) of the spring segment (6), which is fastened in a borehole (7), which penetrates from the end face (18) into the front segment (9) of the shaft, characterized in that

E) the borehole (7) has an axis (17), which encloses an angle $90^\circ > \alpha > 0^\circ$ with the longitudinal axis (3).

2. The device of claim 1, characterized in that the spring element (6), viewed parallel to the central axis (14), has a first cross sectional area Q_1 (15) and the front shaft segment (9), viewed parallel to the longitudinal (3) has a second cross sectional area Q_2 (16) and the ratio of the first to the second cross sectional area (15; 16) $Q_1 : Q_2$ is between 0.06 and 0.01.

3. The device of claim 2, characterized in that the spring element (6), in the unstressed state perpendicular to the longitudinal axis (3), protrudes by an amount H over the second cross sectional area Q_2 (16) of the front shaft segment (9) and that the amount H is between 0.8 mm and 0.2 mm.

4. The device of one of the claims 1 to 3, characterized in that the angle α is between 35° and 55° .

5. The device of one of the claims 1 to 4, characterized in that the spring element (6) is a cylindrical spring wire and has a diameter of between 0.8 and 0.3 mm.

6. The device of one of the claim 2 to 6, characterized in that the radial protrusion of the spring element (6) over the second cross sectional area Q_2 (16) of the front segment (9) of the shaft, in the unstressed state, is decreased from a depth T, measured from the end face (18).
7. The device of claim 6, characterized in that the depth T is between 0.5 mm and 3 mm.
8. The device of claims 6 or 7, characterized in that the elastic segment (13) of the spring element (6) is configured at least on a portion of its length so that the central axis (14) of the spring element (6) encloses, on this at least one portion, an angle β with the longitudinal axis (3) and this portion adjoins the depth T and is directed towards the rear segment (10) of the shaft.
9. The device of claim 8, characterized in that the angle β is between 3° and 30° .
10. The device of one of the claims 1 to 9, characterized in that, at least at the front segment (9) of the shaft, a groove (8), extending parallel to the longitudinal axis (3), is disposed and can accommodate the elastic element 13 of the spring element (6).